



2021 GS AWARDS

V.M. Goldschmidt Award

Bernard Marty, Professor of Geochemistry at the University of Lorraine (France) and at Le Centre de Recherches Pétrographiques et Géochimiques – CNRS (Nancy, France), will receive the 2021 V.M. Goldschmidt Award. The Goldschmidt Award recognizes major achievements in geochemistry or cosmochemistry consisting of either a single outstanding contribution or a series of publications that have had great influence on the field. Dr. Marty is recognized

for work on rare-gas geochemistry and how he has transformed this field by applying it to mantle geodynamics, to atmosphere and ocean history, and to planetary formation. His work on planetary material, interplanetary dust, and comets changed the paradigm of nebular volatiles and has become the reference for the volatile content of planets.

Victor Moritz Goldschmidt (1888–1947) was a chemist considered to be the founder of modern geochemistry and crystal chemistry. He developed the Goldschmidt Classification of elements and worked for many years at the University of Oslo (Norway). The society has presented a medal in his honor since 1972.

Clair C. Patterson Award

Michael Hochella will receive the 2021 Clair C. Patterson Award, which recognizes an innovative breakthrough of fundamental significance in environmental geochemistry, particularly in service of society, consisting of either a single outstanding contribution or a short series of papers published within the decade preceding the award. Dr. Hochella is a Laboratory Fellow at Pacific Northwest National Laboratory (Richland, Washington, USA) and a University

Distinguished Professor (Emeritus) at Virginia Tech (USA). He is recognized for his research on environmental nanoparticles, which resulted in the discovery of hitherto unknown nanocrystalline Magnéli-phase titanium suboxides in coal ash spilled in North Carolina. He and his coworkers carried out toxicological studies of these nanoparticles and revealed them to be highly toxic to humans.

Clair C. Patterson (1922–1995) developed the uranium–lead dating method. Using lead and uranium isotopic data from the Canyon Diablo meteorite, he calculated an age for the Earth to be 4.55 billion years old. This figure was far more accurate than those that previously existed and has remained unchanged for over 50 years. Patterson also made enormous contributions to understanding the role of lead as an environmental contaminant and its subsequent elimination from many products.

F.W. Clarke Award

Mark Albert Torres, an assistant professor at Rice University (Texas, USA), will receive the 2021 F.W. Clarke Award this July. The Clarke Award recognizes an early career scientist for a single outstanding contribution to geochemistry or cosmochemistry published either as a single paper or as a series of papers on a single topic. Dr. Torres is recognized for his work on the geochemistry of the 'Earth's surface', focusing

on interactions between the hydrosphere, cryosphere, atmosphere, biosphere, and crust.

Frank Wigglesworth Clarke (1847–1931) was a chemist who determined the composition of the Earth's crust. He taught chemistry and physics at the University of Cincinnati (Ohio, USA) and served with the U.S. Geological Survey for many years. He also collaborated with the Smithsonian Institution (Washington DC, USA) on atomic weight research. The society established the award in his name in 1972.

SPECIAL LECTURES AT GOLDSCHMIDT 2021

F. Earl Ingerson was a founder and the first president of the Geochemical Society. He also helped establish *Geochimica et Cosmochimica Acta* and served on its first editorial board. The Ingerson Lecture is named in his honor and is awarded annually. The 2021 lecture will be delivered by Gabriel Filippelli of Indiana University–Purdue University Indianapolis (Indiana, USA). His lecture is titled, "Applying Geochemistry to Improve Health and Fight Environmental Injustice."

The Endowed Biogeochemistry Lecture, established in 2015 by an anonymous donor, recognizes a prominent scientist who is making cutting-edge field-based measurements or laboratory measurements on field samples in the area of biogeochemistry. This year's lecture will be given by Andreas Kappler of the Eberhard Karls University of Tübingen (Germany). His lecture is titled, "Iron Biogeochemistry in the Past, Present and Future."

The Robert Berner Lecture was established in 2017 to commemorate Berner's intellectual legacy in geochemistry. It is a joint program between the Geochemical Society and the European Association of Geochemistry. The 2021 Berner Lecturer is Alexandra (Sasha) Turchyn of the University of Cambridge (UK). She will present "The role of diagenesis in biasing shale-hosted biogeochemical proxies through sedimentary sulfide exposure."



PICTURED, FROM LEFT: Gabriel Filippelli, Andreas Kappler, and Sasha Turchyn

DATES ANNOUNCED FOR UPCOMING GOLDSCHMIDT CONFERENCES

The GS and EAG are pleased to announce that the 2022 Goldschmidt Conference will take place in Honolulu (Hawai'i, USA), USA and online from July 10–15. This follows the cancellation of the in-person meeting originally scheduled in Honolulu in 2020. Plans were well underway for field trips, workshops, and social events to give delegates opportunities to explore the geology and culture of the Aloha State. Many of these events will now take place during next year's meeting. Hybrid components will provide remote participation options, as well.

Dates for the following conferences are also confirmed:

9–14 July 2023	Location to be determined
18–25 August 2024	Chicago (Illinois, USA)